04-18-06

EXPRESS MAIL NO. EV529804626US

TRANSMITTAL FORM

(To be used for all correspondence after initial filing)

Application Number	10/706,275
Filing Date	November 13, 2003
First Named Inventor	George H. Lowell
Art Unit	1645
Examiner Name	Nita M. Minnifield
Attorney Docket No.	484112.413

ENGLOSUBER () ()									
	E		OSURES (check all th	at appl	<u>y)</u>				
Fee Transmittal Form Fee Attached			Drawing(s) Request for Corrected Filing Receipt Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation, Change of Correspondence Address Declaration Statement under 37 CFR 3.73(b) Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD			After Allowance Communication to TC Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Return Receipt Postcard Other Enclosure(s) (please identify below):			
Remarks									
	SIGNATIII	DE O	F APPLICANT, ATTOR	DNEV (OP A	ACENT			
Firm Name		ectual Property Law Group PLLC			Customer Number 00500				
Signature	maefi	an	ene Korole						
Printed Name	Mae Joanne	Ros	ok						
Date April 17, 200		06		Reg. No	0.	48,903			
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Signature	***	Sent	Sent Via Express Mail ***						
Typed or printed r			Date:						
<u></u>			andria, VA 22313-1450.						

Complete if Known 10/706,275 Application Number November 13, 2003 Filing Date George H. Lowell First Named Inventor **Examiner Name** Nita M. Minnifield Art Unit 1645

pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818). TRANSMITTAL For FY 2006 olicant claims small entity status. See 37 CFR 1.27 484112.413 **OTAL AMOUNT OF PAYMENT** Attorney Docket No. METHOD OF PAYMENT (check all that apply) ☐ Credit Card Money Order Other (please identify): Check X Deposit Account Deposit Account Number: 19-1090 Deposit Account Name: Seed IP Law Group PLLC For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below, except for the filing fee ☐ Charge fee(s) indicated below Charge any additional fee(s) or underpayments ☐ Charge any underpayments or credit any overpayments of fee(s) under 37 CFR 1.16 and 1.17 Warning: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.) 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **EXAMINATION** SEARCH FEES **FILING FEES FEES Small Small Entity Small Entity Entity** Fee (\$) Fees Paid (\$) Application Type Fee (\$) Fee (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 150 500 250 200 100 100 100 50 130 65 200 Design 0 0 0 Provisional 200 100 0 2. EXCESS CLAIM FEES Small Entity Fee (\$) Fee (\$) **Fee Description** Each claim over 20 (including Reissues) 50 25 200 100 Each independent claim over 3 (including Reissues) Multiple dependent claims 360 180 Multiple Dependent Claims **Total Claims** Fee Paid (\$) Extra Claims Fee (\$) Fee Paid (\$) Fee (\$) HP = highest number of total claims paid for, if greater than 20. Indep. Claims **Extra Claims** Fee (\$) Fee Paid (\$) -3 or HP = HP = highest number of independent claims paid for, if greater than 3. 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)) the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). **Extra Sheets** Number of each additional 50 or fraction thereof Fee Paid (\$) **Total Sheets** Fee (\$) -100 =(round up to a whole number) Food Poid (\$) OTUED FEE(C)

4. OTHER FEE(S)	rees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge): Surcharge - IDS	<u>180</u>
SUBMITTED BY	
Signature Registration No. 48 903 Telephone 206	-622-4900

SORWILLED BA				
Signature	MacJoanne Registration No. (Attorney/Agent)	48,903	Telephone	206-622-4900
Name (Print/Type)	1 —		Date	April 17, 2006



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

George H. Lowell et al.

Application No.

10/706,275

Filed

November 13, 2003

For

: VACCINE

Examiner

: Nita M. Minnifield

Art Unit

1645

Docket No.

: 484112.413

Date

: April 17, 2003

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Information Disclosure Statement. Copies of cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of any other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

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180.00 OP

A fee of \$180 is submitted in accordance with 37 CFR 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,
Seed Intellectual Property Law Group PLLC

MæJoenne Rosok

Mae Joanne Rosok Registration No. 48,903

Enclosures:

Postcard Check Information Disclosure Statement Cited References (X 23)

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Sheet $\underline{1}$ of $\underline{3}$



INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.	APPLICATION NO.	
484112.413	10/706,275	
APPLICANTS		
George H. Lowell et al.		
FILING DATE	GROUP ART UNIT	
November 13, 2003	1645	_

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2002/0176863 A1	11/28/02	Dale	424	184.1	
	AB	2002/0086023 A1	07/04/02	Dale	424	178.1	- 16 T. H. 200 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	AC	2003/0143245 A1	07/31/03	Reddish et al.	424	190.1	
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	AR	5,985,284	11/16/99	Lowell	424	234.1	

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		DOCUMENT NUMBER	DATE	COUNTRY	YES	NO	
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

EXPRESS MAIL NO. EV529804626US Sheet 2 of 3

*EXAMINER INITIAL DOCUMENT NUMBER DATE BA 6,716,433 B1 04/06/04 Dale						ATTY. DOCKET NO. 484112.413 APPLICANTS George H. Lowe FILING DATE November 13, 20 T DOCUMENTS NAME		CLAS 424	GROU 164:	UP ART UNIT SUBCLASS		G DATE OPRIATE
	ВВ	6,743,900 B2	L	01/04		rt et al.		530		414		
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	ВС	EP 0 305 279 A1		03/01/8	39	EPO					ļ	
	BD	WO 98/01558 A2		01/15/9	8	РСТ						
	BE	WO 99/13084 A1		03/18/9	9	PCT						
	BF	WO 00/37648 A1	7648 A1 06/29/00 Pc			PCT						
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	ВР	Cartwright, K., "	local immune responses," <i>The Journal of Immunology</i> , 148(3):888-893, February 1, 19 Cartwright, K., "Group A streptococcal infections in humans," <i>Journal of Applied Michael Supplied Michael Supplied Michael Supplied Supplied Michael Supplied </i>									
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Date: April 17, 2006 771318_1.DOC

Sheet 3 of 3

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		U.S. PAT	ENT	DOCUMENTS					
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СВ	<u></u>								
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